INTERNATIONAL SEARCH REPORT

International application No.

		PCT/JP2	2004/018151
	CATION OF SUBJECT MATTER H01M8/04, F17C13/00		
According to Int	ternational Patent Classification (IPC) or to both national	al classification and IPC	
B. FIELDS SE	ARCHED		
Minimum docun Int.Cl	nentation searched (classification system followed by cl H01M8/04, F17C13/00	lassification symbols)	
Jitsuyo Kokai J	itsuyo Shinan Koho 1971—2005 Ji	oroku Jitsuyo Shinan Koho tsuyo Shinan Toroku Koho	1994-2005 1996-2005
Electronic data b	pase consulted during the international search (name of o	data base and, where practicable, search to	erms used)
C. DOCUMEN	ITS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.
X	JP 60-62064 A (Hitachi, Ltd. 10 April, 1985 (10.04.85), Page 5, upper left column, li lower left column, line 7 to column, line 16; page 8, upper lines 9 to 16; page 10, upper line 7 to upper right column, Figs. 1, 6 (Family: none) JP 2003-257466 A (Matsushita	nes 14 to 17, lower right er right column, left column, line 16;	1,4
	<pre>Industrial Co., Ltd.), 12 September, 2003 (12.09.03) Par. Nos. [0024] to [0025], [Fig. 4</pre>	,	1,7
X Further documents are listed in the continuation of Box C.		See patent family annex.	
"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination	
"P" document published prior to the international filing date but later than the priority date claimed		being obvious to a person skilled in the art "&" document member of the same patent family	
18 Marc	ch, 2005 (18.03.05)	Date of mailing of the international sear 05 April, 2005 (05.	
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer	
Facsimile No.		Telephone No.	

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Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim N
A	JP 2001-93551 A (Toshiba Corp.), 06 April, 2001 (06.04.01), Par. Nos. [0016] to [0019], [0041] to [0042], [0055]; Figs. 1, 12 & EP 1087455 A2 & US 6506513 B1 & US 2003/0082421 A1	1,4
P, A	JP 2004-234971 A (Electric Power Development Co., Ltd.), 19 August, 2004 (19.08.04), Par. Nos. [0019], [0035]; Fig. 3 (Family: none)	1,4
A	JP 2003-223920 A (Yuasa Corp.), 08 August, 2003 (08.08.03), Par. Nos. [0011], [0014] to [0015]; Fig. 2 (Family: none)	1-12
P,A	JP 2003-346862 A (Hitachi Maxell, Ltd.), 05 December, 2003 (05.12.03), Par. No. [0027]; Fig. 1 (Family: none)	1-12
E,A	JP 2005-11695 A (Matsushita Electric Industrial Co., Ltd.), 13 January, 2005 (13.01.05), Par. Nos. [0018], [0023] to [0024]; Fig. 1 (Family: none)	1-12
P,A	JP 2004-152741 A (Toshiba Corp.), 27 May, 2004 (27.05.04), Par. Nos. [0079] to [0086]; Figs. 7 to 9 & US 2004/0009381 A1	1-12
P,A	JP 2004-281341 A (Casio Computer Co., Ltd.), 07 October, 2004 (07.10.04), Figs. 3, 7 (Family: none)	1-12